

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: 188P129

Luminaire Tested: **2EP3GX-332S26I-2BC-PAF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 188P129  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 2EP3GX-332S26I-2BC-PAF  
Description: 2 X 4 Recessed Convertible Body Luminaire with a 3" deep  
12 cell semi-specular low iridescent parabolic louver.  
Light Source: Three - FO32T8/35K - 2800 Lumens ea. - 32 Watts ea.  
Ballast/Driver: Magnetek B332I120RH Electronic - L.O.B.F. = 88.9

**Summary**

Lumens per Lamp: 2800 (3 lamps)  
Luminaire Lumens: 6099.9 lumens  
Efficiency: 72.6%  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.55 / 1.5  
Luminous Opening: Rectangular (W 1.73' x L: 3.75' x H: 0')  
CIE Type: Direct

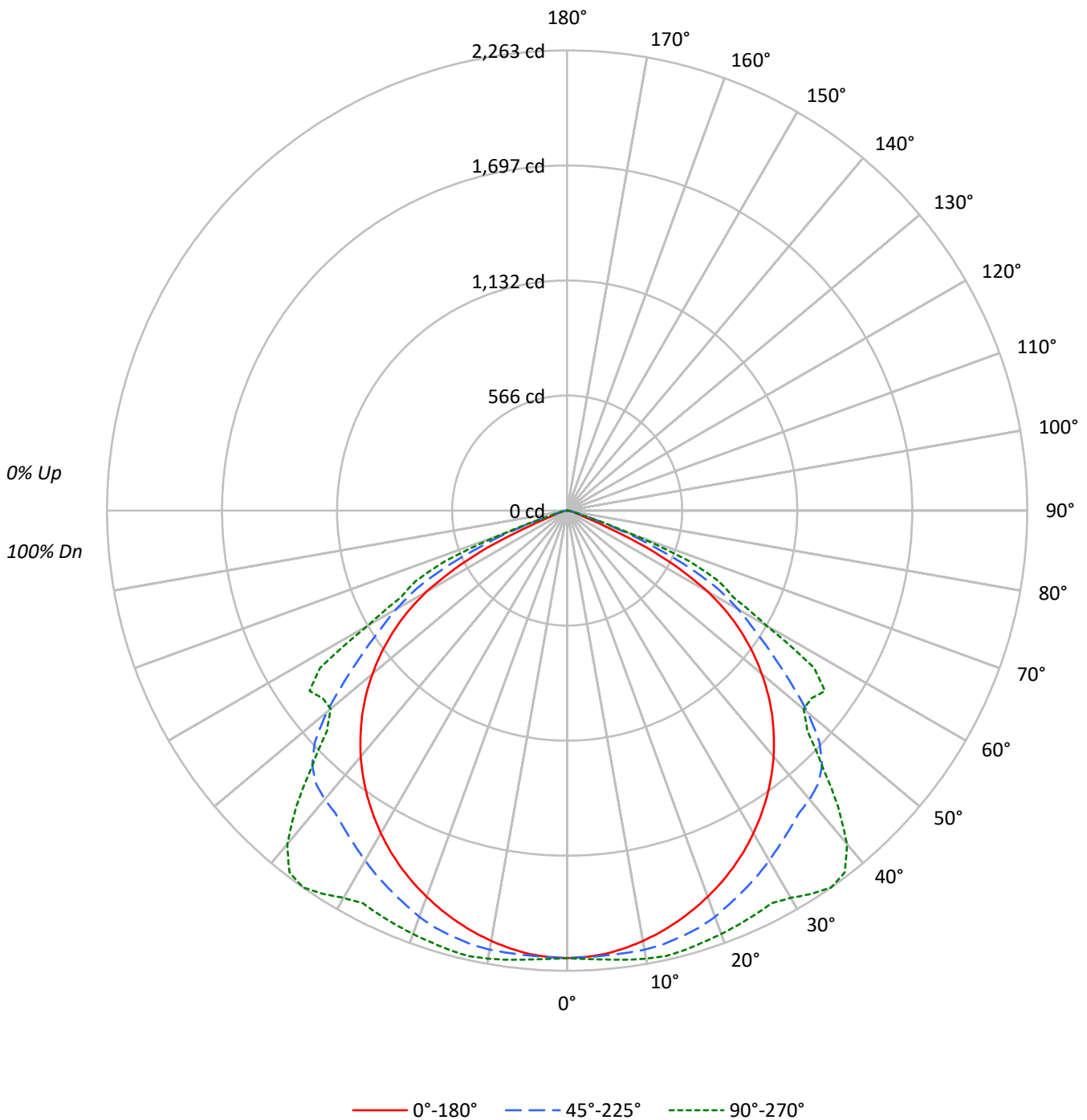
Input Watts (W): 86.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	73				
1	80	77	75	72	78	76	73	71	73	71	69	70	68	67	67	66	65	63				
2	74	68	64	60	72	67	63	59	64	61	58	62	59	57	60	58	56	54				
3	67	60	55	51	66	59	54	50	57	53	49	55	52	49	53	50	48	46				
4	62	54	48	43	60	53	47	43	51	46	42	49	45	42	48	44	41	40				
5	57	48	42	37	55	47	41	37	46	41	37	44	40	36	43	39	36	34				
6	53	43	37	32	51	43	37	32	41	36	32	40	35	32	39	35	32	30				
7	49	39	33	29	47	39	33	29	37	32	28	36	32	28	35	31	28	27				
8	45	36	30	25	44	35	29	25	34	29	25	33	29	25	32	28	25	24				
9	42	33	27	23	41	32	27	23	31	26	23	31	26	23	30	26	22	21				
10	39	30	24	21	39	30	24	21	29	24	21	28	24	20	28	23	20	19				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3654	3654	3654
5°	3646	3659	3692
10°	3622	3696	3771
15°	3597	3727	3844
20°	3570	3756	3915
25°	3544	3771	4013
30°	3511	3809	4215
35°	3473	3870	4586
40°	3424	4017	4639
45°	3348	4162	4160
50°	3228	3985	3920
55°	3039	3554	4477
60°	2663	3224	3755
65°	1709	2604	3233
70°	417	1301	1650
75°	250	353	301
80°	163	220	220
85°	114	152	152



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	209.7	3.4	2.5	0°	2201	2201	2201	2201	2201	
10°-20°	612.1	10.0	7.3	5°	2188	2187	2196	2208	2216	208
20°-30°	952.8	15.6	11.3	15°	2093	2114	2169	2220	2237	591
30°-40°	1221.6	20.0	14.5	25°	1935	1986	2059	2144	2191	892
40°-50°	1282.8	21.0	15.3	35°	1714	1790	1910	2134	2263	1072
50°-60°	1114.8	18.3	13.3	45°	1426	1523	1773	1785	1772	1098
60°-70°	613.0	10.0	7.3	55°	1050	1179	1228	1353	1547	930
70°-80°	83.5	1.4	1.0	65°	435	531	663	696	823	417
80°-90°	9.5	0.2	0.1	75°	39	47	55	54	47	46
90°-100°	0.0	0.0	0.0	85°	6	7	8	8	8	7
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	0
110°-120°	0.0	0.0	0.0	95°	0	0	0	0	0	0
120°-130°	0.0	0.0	0.0	105°	0	0	0	0	0	0
130°-140°	0.0	0.0	0.0	115°	0	0	0	0	0	0
140°-150°	0.0	0.0	0.0	125°	0	0	0	0	0	0
150°-160°	0.0	0.0	0.0	135°	0	0	0	0	0	0
160°-170°	0.0	0.0	0.0	145°	0	0	0	0	0	0
170°-180°	0.0	0.0	0.0	155°	0	0	0	0	0	0
0°-30°	1774.6	29.1	21.1	165°	0	0	0	0	0	0
0°-40°	2996.2	49.1	35.7	175°	0	0	0	0	0	0
0°-60°	5393.8	88.4	64.2	180°	0	0	0	0	0	0
0°-90°	6099.9	100.0	72.6							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	6099.9	100.0	72.6							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2201	2201	2201	2201	2201
2.5°	2197	2195	2198	2204	2207
5°	2188	2187	2196	2208	2216
7.5°	2171	2174	2195	2219	2228
10°	2149	2157	2193	2224	2237
12.5°	2123	2136	2184	2225	2244
15°	2093	2114	2169	2220	2237
17.5°	2059	2088	2152	2202	2226
20°	2021	2059	2126	2185	2216
22.5°	1980	2024	2092	2165	2204
25°	1935	1986	2059	2144	2191
27.5°	1886	1945	2025	2121	2177
30°	1832	1900	1987	2102	2199
32.5°	1775	1848	1948	2115	2235
35°	1714	1790	1910	2134	2263
37.5°	1649	1727	1874	2134	2243
40°	1580	1663	1854	2085	2141
42.5°	1505	1596	1826	1962	1970
45°	1426	1523	1773	1785	1772
47.5°	1341	1446	1682	1597	1602
50°	1250	1363	1543	1450	1518
52.5°	1154	1275	1381	1378	1515
55°	1050	1179	1228	1353	1547
57.5°	934	1068	1092	1300	1440
60°	802	929	971	1132	1131
62.5°	627	748	838	858	921
65°	435	531	663	696	823
67.5°	195	308	455	555	648
70°	86	130	268	352	340
72.5°	57	70	127	142	108
75°	39	47	55	54	47
77.5°	26	31	34	34	34
80°	17	21	23	24	23
82.5°	10	13	14	15	15
85°	6	7	8	8	8
87.5°	2	3	3	3	3
90°	0	0	0	0	0
92.5°	0	0	0	0	0
95°	0	0	0	0	0
97.5°	0	0	0	0	0
100°	0	0	0	0	0
102.5°	0	0	0	0	0
105°	0	0	0	0	0
107.5°	0	0	0	0	0
110°	0	0	0	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
115°	0	0	0	0	0
117.5°	0	0	0	0	0
120°	0	0	0	0	0
122.5°	0	0	0	0	0
125°	0	0	0	0	0
127.5°	0	0	0	0	0
130°	0	0	0	0	0
132.5°	0	0	0	0	0
135°	0	0	0	0	0
137.5°	0	0	0	0	0
140°	0	0	0	0	0
142.5°	0	0	0	0	0
145°	0	0	0	0	0
147.5°	0	0	0	0	0
150°	0	0	0	0	0
152.5°	0	0	0	0	0
155°	0	0	0	0	0
157.5°	0	0	0	0	0
160°	0	0	0	0	0
162.5°	0	0	0	0	0
165°	0	0	0	0	0
167.5°	0	0	0	0	0
170°	0	0	0	0	0
172.5°	0	0	0	0	0
175°	0	0	0	0	0
177.5°	0	0	0	0	0
180°	0	0	0	0	0

(END OF REPORT)